

Distiller Refid	HAWC short citation	Tables/Figures for Extraction
71	Tanner et al. 2011	Table 3 paraquat (make sure to include a reference group with no paraquat and an OR of 1), make sure to note in the results that there were no differences in clinical features (see table 4)
99	Goldman et al. 2012	Table 2 paraquat use ever versus never (never is the reference with an OR of 1, ever is the other group); paraquat total years of lifetime exposure  Table 3? do we want to include polymorphism? if so exposure is still paraquat, the comparison group would be paraquat (genotype), and the groups would be no paraquat (GSTT*1), etc. also put in polymorphism in the subeffect field
2526	Wu et al. 2012	No data to extract, may be useful in describing effects of paraquat on the brain but no data to extract.  Acute exposure, no controls, just different times since the acute exposure when the MRI was conducted.
2575	Ranjbar et al. 2002	Table 1
5974	Kelly et al. 1994	Table 2 Paraquat, results are for men only because the women had too few to evaluate, you will need to set up 2 comparison groups, one where the control is the cardiac patients and one where the control is the voters.
6862	Firestone et al. 2010	Table V paraquat (no paraquat will be the control with an OR of 1) do not both extracting data on the females, just make a comment that there were no females with this exposure.

Austin's Comments	Robyn's comments
Agreed - no additional comment	
Agree and include the data on the polymorphism (Table 3)	
This one is a bit tricky since I am not familiar with the MRI measurements (DCavg, CPV, or FA), but based on their discussion it sounds like the data in Tables 3-5 are relevant a discussion on morphometric changes to the brain following paraquat exposure.	Agree that the endpoints (MRI data) reported in this paper are not specific to Parkinson's disease but are rather general, nonspecific changes in the brain that might be associated with PQ poisoning. Because of this, we don't think the endpoints in this study satisfy the primary or secondary human neuro outcomes in the PECO statement, so no data should be extracted from this study. These data would be better summarized in a table or in the text, discussing the effects of acute PQ poisoning on the brain.
I'm not sure if Table 1 needs to be extracted. It was looking at plasma activity which while useful may not be predictive of what is going on in the nervous system. I think we would end up using this information in our qualitative discussion of paraquat induced oxidative stress.	Agree. We will do a quick check of the other studies, just to make sure that this is a consistent decision, and we haven't extracted any other plasma data, and make a note so that this is consistent in any future studies as well. Please let us know if you would rather include other plasma data under other circumstances.
Agreed - no additional comment	agreed, I would mark as a duplicate
Agreed - no additional comment	

Suggested Action	approval for action by EPA	ICF response
READY TO EXTRACT		
Move forward with extraction, including the polymorphism info		
Do not extract. Mark as excluded in distiller (?) OR leave included for qualitative summary (?)		
do not extract. Check other studies and make a note for future studies that plasma data should not be extracted.		
Do not extract - mark as excluded in distiller for reason "9. duplicate"		
READY TO EXTRACT		

6863	Elbaz et al. 2009	Text on page 501 that states no association was found. Can only include as a qualitative statement. This is only noted in the discussion, still include?
6865	Engel et al. 2001	Table 3 paraquat (no paraquat with a PR of 1 is the reference group); adjusted PR  Table 4 paraquat by tertile years of exposure; adjusted PR  Table 5 paraquat by tertile of acre-years of exposure; adjusted PR
6867	Hertzman et al. 1994	There were two different control groups for this one, the CD controls are to address potential recall bias; you can use the same comparison group because it will be no paraquat versus paraquat, but in the results you will need to distinguish the different groups used for comparison  Table 4 Paraquat exposure in men

It is possible that this statement is referring to the quaternary ammonium row in Table 3, but it's rather vague and without their raw data it is impossible to tell if that row also includes exposure to other quaternary ammonium herbicides. I would say exclude it because it is unclear if they assessed paraquat only exposure.	
Agreed - no additional comment	
These appear to be the same data presented in the book chapter from Kelly et al 1994 (Distiller ID 5974); however, this citation might be more appropriate since it is the original study.	agreed, I would extract this study

change to exclude in distiller due to reason "5. lacks paraquat exposure"		
READY TO EXTRACT		
READY TO EXTRACT		